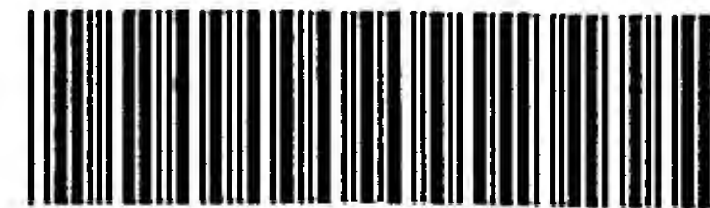


RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 09/922,418
Source: IFW/6
Date Processed by STIC: 6/14/06

ENTERED



IFW16

RAW SEQUENCE LISTING

DATE: 06/14/2006

PATENT APPLICATION: US/09/922,418

TIME: 10:35:29

Input Set : N:\RJAVED\09922418.txt

Output Set: N:\CRF4\06142006\I922418.raw

3 <110> APPLICANT: Masters, David B.

5 <120> TITLE OF INVENTION: Devices Including Protein Matrix Materials And Methods Of Making And

6 Using Thereof

8 <130> FILE REFERENCE: 45795.23.1

10 <140> CURRENT APPLICATION NUMBER: US 09/922,418

11 <141> CURRENT FILING DATE: 2001-08-03

13 <160> NUMBER OF SEQ ID NOS: 21

15 <170> SOFTWARE: PatentIn version 3.3

17 <210> SEQ ID NO: 1

18 <211> LENGTH: 59

19 <212> TYPE: PRT

20 <213> ORGANISM: Artificial

22 <220> FEATURE:

23 <223> OTHER INFORMATION: synthetic construct similar to silk protein

25 <400> SEQUENCE: 1

27 Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala

28 1 5 10 15

31 Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala

32 20 25 30

35 Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser

36 35 40 45

39 Gly Ala Gly Ala Gly Ser Gly Ala Ala Gly Tyr

40 50 55

43 <210> SEQ ID NO: 2

44 <211> LENGTH: 6

45 <212> TYPE: PRT

46 <213> ORGANISM: Artificial

48 <220> FEATURE:

49 <223> OTHER INFORMATION: seq. repeated indefinitely, synthetic construct similar to silk protein

51 <400> SEQUENCE: 2

53 Gly Ala Gly Ala Gly Ser

54 1 5

57 <210> SEQ ID NO: 3

58 <211> LENGTH: 71

59 <212> TYPE: PRT

60 <213> ORGANISM: Artificial

62 <220> FEATURE:

63 <223> OTHER INFORMATION: seq. repeated indefinitely, synthetic construct similar to silk protein

64 containing RGD sequence from fibronectin.

66 <400> SEQUENCE: 3

68 Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala

69 1 . 5 10 15
72 Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala

RAW SEQUENCE LISTING

DATE: 06/14/2006

PATENT APPLICATION: US/09/922,418

TIME: 10:35:29

Input Set : N:\RJAVED\09922418.txt

Output Set: N:\CRF4\06142006\I922418.raw

```

73          20          25          30
76 Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser
77          35          40          45
80 Gly Ala Gly Ala Gly Ser Gly Ala Ala Val Thr Gly Arg Gly Asp Ser
81          50          55          60
84 Pro Ala Ser Ala Ala Gly Tyr
85 65          70
88 <210> SEQ ID NO: 4
89 <211> LENGTH: 74
90 <212> TYPE: PRT
91 <213> ORGANISM: Artificial
93 <220> FEATURE:
94 <223> OTHER INFORMATION: seq. repeated indefinitely, synthetic construct similar to
silk protein
95     containing sequence from laminin protein.
97 <400> SEQUENCE: 4
99 Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala
100 1          5          10          15
103 Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala
104          20          25          30
107 Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser
108          35          40          45
111 Gly Ala Gly Ala Gly Ser Gly Ala Ala Pro Gly Ala Ser Ile Lys Val
112          50          55          60
115 Ala Val Ser Ala Gly Pro Ser Ala Gly Tyr
116 65          70
119 <210> SEQ ID NO: 5
120 <211> LENGTH: 73
121 <212> TYPE: PRT
122 <213> ORGANISM: Artificial
124 <220> FEATURE:
125 <223> OTHER INFORMATION: seq. repeated indefinitely, synthetic construct similar to
silk protein
126     containing a different sequence from laminin protein.
128 <400> SEQUENCE: 5
130 Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala
131 1          5          10          15
134 Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala
135          20          25          30
138 Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser
139          35          40          45
142 Gly Ala Gly Ala Gly Ser Gly Ala Ala Pro Gly Ala Ser Ile Lys Val
143          50          55          60
146 Ala Val Ser Gly Pro Ser Ala Gly Tyr
147 65          70
150 <210> SEQ ID NO: 6
151 <211> LENGTH: 71
152 <212> TYPE: PRT
153 <213> ORGANISM: Artificial
155 <220> FEATURE:
156 <223> OTHER INFORMATION: seq. repeated indefinitely, synthetic construct similar to
silk protein

```

RAW SEQUENCE LISTING

DATE: 06/14/2006

PATENT APPLICATION: US/09/922,418

TIME: 10:35:29

Input Set : N:\RJAVED\09922418.txt

Output Set: N:\CRF4\06142006\I922418.raw

157 containing the RGD sequence from fibronectin.

159 <400> SEQUENCE: 6

161 Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala

162 1 5 10 15

165 Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala

166 20 25 30

169 Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser

170 35 40 45

173 Gly Ala Gly Ala Gly Ser Arg Tyr Val Val Leu Pro Arg Pro Val Cys

174 50 55 60

177 Phe Glu Lys Ala Ala Gly Tyr

178 65 70

181 <210> SEQ ID NO: 7

182 <211> LENGTH: 20

183 <212> TYPE: PRT

184 <213> ORGANISM: Artificial

186 <220> FEATURE:

187 <223> OTHER INFORMATION: seq. repeated indefinitely, synthetic construct similar to elastin

188 protein.

190 <400> SEQUENCE: 7

192 Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val

193 1 5 10 15

196 Pro Gly Val Gly

197 20

200 <210> SEQ ID NO: 8

201 <211> LENGTH: 52

202 <212> TYPE: PRT

203 <213> ORGANISM: Artificial

205 <220> FEATURE:

206 <223> OTHER INFORMATION: seq. repeated indefinitely, synthetic construct similar to silk and

207 elastin proteins.

209 <400> SEQUENCE: 8

211 Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly

212 1 5 10 15

215 Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val

216 20 25 30

219 Gly Val Pro Gly Val Gly Val Pro Gly Ala Gly Ala Gly Ser Gly Ala

220 35 40 45

223 Gly Ala Gly Ser

224 50

227 <210> SEQ ID NO: 9

228 <211> LENGTH: 82

229 <212> TYPE: PRT

230 <213> ORGANISM: Artificial

232 <220> FEATURE:

233 <223> OTHER INFORMATION: seq. repeated indefinitely, synthetic construct similar to silk and

234 elastin proteins.

236 <400> SEQUENCE: 9

238 Gly Ala Ala Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/922,418

DATE: 06/14/2006

TIME: 10:35:29

Input Set : N:\RJAVED\09922418.txt

Output Set: N:\CRF4\06142006\I922418.raw

```

239 1          5          10          15
242 Val Gly Val Pro Gly Val Gly Val Ala Ala Gly Tyr Gly Ala Gly Ala
243          20          25          30
246 Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala
247          35          40          45
250 Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser
251          50          55          60
254 Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala
255 65          70          75          80
258 Gly Ser
262 <210> SEQ ID NO: 10
263 <211> LENGTH: 111
264 <212> TYPE: PRT
265 <213> ORGANISM: Artificial
267 <220> FEATURE:
268 <223> OTHER INFORMATION: seq. repeated indefinitely, synthetic construct similar to
silk and
269      elastin proteins.
271 <400> SEQUENCE: 10
273 Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala
274 1          5          10          15
277 Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala
278          20          25          30
281 Gly Ala Gly Ser Gly Ala Ala Gly Tyr Gly Ala Gly Ala Gly Ser Gly
282          35          40          45
285 Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly
286          50          55          60
289 Ser Gly Ala Gly Ala Gly Ser Gly Val Gly Val Pro Gly Val Gly Val
290 65          70          75          80
293 Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
294          85          90          95
297 Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
298          100         105         110
301 <210> SEQ ID NO: 11
302 <211> LENGTH: 88
303 <212> TYPE: PRT
304 <213> ORGANISM: Artificial
306 <220> FEATURE:
307 <223> OTHER INFORMATION: seq. repeated indefinitely, synthetic construct similar to
silk and
308      elastin proteins.
310 <400> SEQUENCE: 11
312 Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
313 1          5          10          15
316 Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
317          20          25          30
320 Gly Val Pro Gly Val Gly Val Pro Gly Ala Gly Ala Gly Ser Gly Ala
321          35          40          45
324 Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser
325          50          55          60
328 Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala

```

RAW SEQUENCE LISTING

DATE: 06/14/2006

PATENT APPLICATION: US/09/922,418

TIME: 10:35:29

Input Set : N:\RJAVED\09922418.txt

Output Set: N:\CRF4\06142006\I922418.raw

```

329 65              70              75              80
332 Gly Ser Gly Ala Gly Ala Gly Ser
333              85
336 <210> SEQ ID NO: 12
337 <211> LENGTH: 108
338 <212> TYPE: PRT
339 <213> ORGANISM: Artificial
341 <220> FEATURE:
342 <223> OTHER INFORMATION: seq. repeated indefinitely, synthetic construct similar to
silk and
343      elastin proteins.
345 <400> SEQUENCE: 12
347 Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
348 1              5              10              15
351 Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
352              20              25              30
355 Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
356              35              40              45
359 Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Ala Gly Ala
360              50              55              60
363 Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala
364 65              70              75              80
367 Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser
368              85              90              95
371 Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser
372              100              105
375 <210> SEQ ID NO: 13
376 <211> LENGTH: 128
377 <212> TYPE: PRT
378 <213> ORGANISM: Artificial
380 <220> FEATURE:
381 <223> OTHER INFORMATION: seq. repeated indefinitely, synthetic construct similar to
silk and
382      elastin proteins.
384 <400> SEQUENCE: 13
386 Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
387 1              5              10              15
390 Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
391              20              25              30
394 Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
395              35              40              45
398 Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
399              50              55              60
402 Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
403 65              70              75              80
406 Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala
407              85              90              95
410 Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala
411              100              105              110
414 Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser
415              115              120              125

```

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/922,418

DATE: 06/14/2006
TIME: 10:35:30

Input Set : N:\RJAVED\09922418.txt
Output Set: N:\CRF4\06142006\I922418.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/922,418

DATE: 06/14/2006

TIME: 10:35:30

Input Set : N:\RJAVED\09922418.txt

Output Set: N:\CRF4\06142006\I922418.raw